Yuezhi Yang

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EDUCATION

The University of Hong Kong   Sep. 2018 – Present

Major in Computer Science, Minor in Mathematics

- Cumulative GPA: **3.98**/4.3 (Ranking：TOP **1**% / 135)
- Research Interest: **Geometry Modelling, 3D Shape Analysis, 3D Reconstruction, CAD Modelling**
- Selected Courses: Graduate-level Measure Theory, Stochastic Process, Numerical Analysis, Deep Learning
- Honors & Awards: Dean's Honor List, School of Engineering, three times, 2019-2021

   University Entrance Scholarship, 2018

University of Illinois at Urbana-Champaign   Dec. 2020 – May 2021

Exchange Program

- Cumulative GPA: **4.0**/4.0
- Core Courses: Interactive Computer Graphics, Rendering, Optimization

RESEARCH EXPERIENCE

Discovering Design Concepts for CAD Sketches   May 2021 – May 2022

Under supervision of Dr. Hao Pan, Dr. Xin Tong at Microsoft Research Asia (MSRA), Internet Graphics Group

- Research on learning to discover modular design concept automatically in parametric CAD modelling in a self-supervised, program induction manners.
- Demonstrate the design concept learning on a large-scale CAD sketch dataset and show its applications for design intent interpretation and auto-completion.
- First author paper accepted to NeuralIPS 2022.

Medical Dentistry and Imaging Application for Deep Learning   Apr. 2020 – Mar. 2021

Under supervision of Prof. Wenping Wang at The University of Hong Kong

- Research on learning-based full tooth inpainting reconstruction from Panoramic Radiograph and Dental Cast
- Develop an adversarial learning schema for robust and plausible reconstruction of tooth in addition to implicit volume-based reconstruction framework.
- Conduct all the experiments and implemented the algorithm, first author submission to MICCAI 2021.
- Paper *domain generalization of Mammography Detection via Contrastive Learning* accepted in MICCAI 2021.

INDUSTRY INTERNSHIP

Amazon Web Service (AWS) Shanghai AI Lab | *Software Development Intern*   Dec. 2020 – May 2021

- Develop **RAF**, a deep learning compiler native accelerator which optimize the performances of models defined in different frameworks on operator and computational graph level.
- Optimize operator and graph performance and reestablished computer vision models baseline under this framework

ACADEMIC ACTIVITIES

Introduction to Python Programing Course | *Teaching Assistant*   Aug. 2019 – Dec. 2019

- Led the group tutorial discussion for 15 students and review lecture contents
- Mentor them through solving Python coding problems hand by hand for two hours each week

HKU RoboMaster team | *Automation and Computer Vision Engineer*   Oct. 2018 – Dec.2020

- Implement the software controlling systems for three different types of robots on STM32 single-chip controller and developed computer vision algorithm to identify and track enemy robots
- Win 2nd prize in DJI RoboMaster 2020 Competition

SKILLS

- Programming Language: Proficiency in Python and C++; Java, R
- Framework & Tool: Git, Tensorflow, Pytorch, Linux, CGAL, Libigl, Blender
- Language: Chinese (Native), English (TOFEL: 109)